

ABSTRACT

A method of fabricating a pixel of a liquid crystal display panel is described. A polysilicon island having an active device region and a storage capacitor region is formed over a first substrate. A bottom electrode is formed by implanting ions into the storage capacitor region of the polysilicon island. A gate-insulating layer is formed over the polysilicon island. A gate and a top electrode are formed over the gate-insulating layer. A source and a drain are formed in the polysilicon island. An insulating layer is formed over the gate-insulating layer. A pixel electrode is formed over the insulating layer and electrically connected with the drain and the bottom electrode. A second substrate having an electrode film thereon is provided. The electrode film and the top electrode are electrically connected to a common electrode. A liquid crystal layer is formed between the first and the second substrate.